

MIL-DTL-55302/84C
w/AMENDMENT 1
14 March 2011
SUPERSEDING
MIL-DTL-55302/84C
15 November 2004

CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES:
CONTACTS – CRIMP, DIP SOLDER TAIL,
SOLDER TURRET, AND WIREWRAP

This specification is approved for use by all Departments and Agencies of the Department of Defense.

Technical drawing of a 1/2-20 x 3.5 inch hex bolt with a hex nut and a 1/2-20 x 3.5 inch hex cap screw. The drawing shows the bolt, nut, and cap screw in a cross-sectional view. Dimensions are provided for the bolt, nut, and cap screw. The bolt has a major diameter of .508 DIA $\pm .002$ and a minor diameter of .420 REF. The nut has a major diameter of .508 DIA $\pm .002$ and a minor diameter of .420 REF. The cap screw has a major diameter of .508 DIA $\pm .002$ and a minor diameter of .420 REF. The drawing also shows the identification band for the cap screw, which is labeled "IDENTIFICATION BAND 1/2-20 ONLY".

Technical drawing of a mechanical part with the following dimensions and features:

- Overall length: .880 REF
- Distance from left end to start of cross-section: .624
- Distance from end of cross-section to right end: .262
- Distance from end of cross-section to right end (alternative dimension): .250
- Left end features:
 - Top: .156
 - Bottom: .020
- Left end diameters:
 - Top: .058 DIA ± .002
 - Bottom: .025 DIA ± .002
- Right end features:
 - Top: .062 DIA ± .003
 - Bottom: .074 DIA
- Internal feature: SEE NOTE 6

FIGURE 1. Contact termination.

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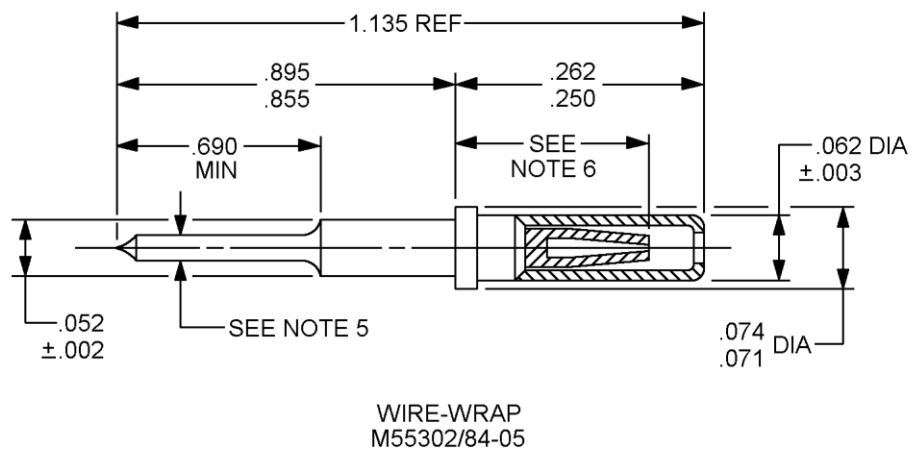
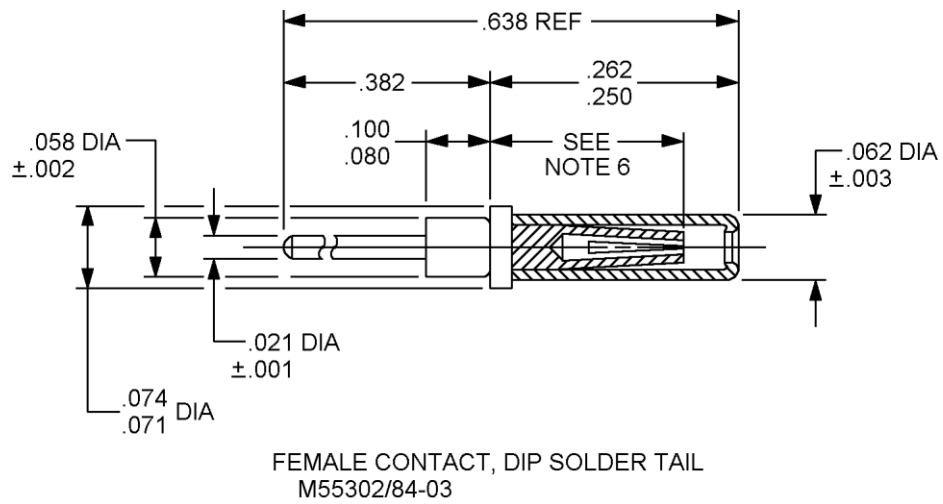
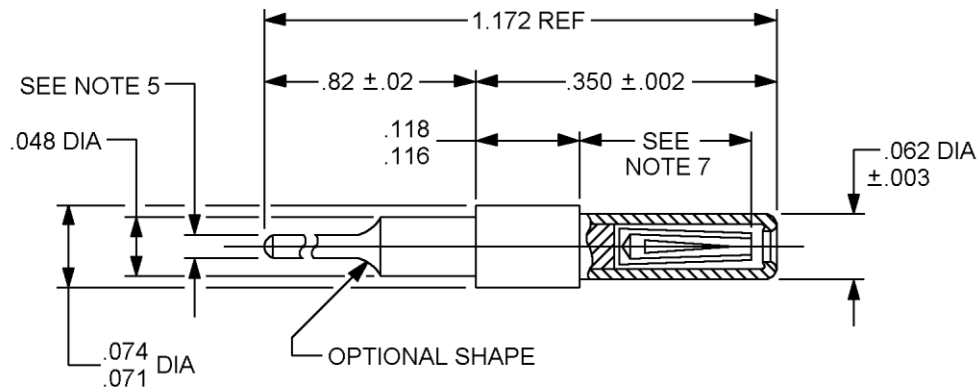


FIGURE 1. Contact termination – Continued.

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WIRE-WRAP
M55302/84-06

Inches	mm	Inches	mm	Inches	mm
.001	0.03	.074	1.88	.382	9.70
.002	0.05	.080	2.03	.420	10.67
.003	0.08	.100	2.54	.624	15.85
.020	0.51	.116	2.95	.638	16.21
.021	0.53	.118	3.00	.690	17.53
.025	0.64	.156	3.96	.855	21.72
.036	0.91	.158	4.01	.82	20.8
.048	1.22	.170	4.32	.880	22.35
.052	1.32	.250	6.35	.895	22.73
.058	1.47	.262	6.65	1.135	28.83
.062	1.57	.350	8.89	1.172	29.77
.071	1.80				

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .005$ (0.13 mm) for three place decimals, $\pm .02$ (0.5 mm) for two place decimals, and $\pm 2^\circ$ on angles.
4. These connectors mate with connectors in accordance with MIL-DTL-55302/82.
5. Dimensions shall be .025 nominal, .022 minimum.
6. Minimum point of .210 (5.33 mm) at which gauge having the minimum diameter of the mating pin and a square face encase socket contact spring.
7. Minimum point of .304 (7.72 mm) at which gauge having the minimum diameter of the mating pin and a square face encase socket contact spring.

FIGURE 1. Contact termination – Continued.

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REQUIREMENTS

Dimensions and configuration: See figure 1.

Material:

Crimp, removable: 01 - Phosphor bronze in accordance with ASTM B134/B134M.

02 - Beryllium copper in accordance with ASTM B196/B196M.

Dip solder tail: 03

Solder eyelet: 04 - Phosphor bronze in accordance with ASTM B134/B134M.

Wrappost: 05

06

Contact sleeve: Stainless steel in accordance with ASTM A240/A240M. All contact sleeves are passivated except -01 which has a gold flash.

Plating: Contact finish in accordance with ASTM B488, type 2, code C, class 1.27, over copper plate.

Qualification and quality conformance requirements are not applicable. All contacts are tested in accordance with the applicable specification sheet. All contacts are supplied with MIL-DTL-55302/82 and cannot be acquired separately.

Part or Identifying Number (PIN): M55302/84-(dash number from figure I).

Amendment notations. The margins of this specification are marked with vertical lines to indicate where modifications from this amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Reference documents. In addition to MIL-DTL-55302, this document references the following:

MIL-DTL-55302/82
ASTM A240/A240M
ASTM B134/B134M
ASTM B196/B196M
ASTM B488

CONCLUDING MATERIAL

Custodians:
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-2010-116)

Review activities:
Air Force - 19, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.